

Abstract

5 A system, a method and a component using thermally stimulatable substances
for the temperature measurement of thermal barrier coatings are provided. The a
thermal barrier coating comprises a stimulatable substance as high-lighter and a
substance to adhere the thermal stimulatable substance in the coating. The
stimulatable substance having emission lines which vary in response to a temperature
10 of a coated component. For example, the present invention can be used in combustion
turbines or combustion machines.